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1. N11A-T027: Compact, Light Weight, Low Cost, Precision, Non-inertial Underwater Navigation Sensor

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Design and develop a compact, light weight, low cost, non-inertial sensor capable of providing external navigation reference information for small UUVs conducting environmental and tactical reconnaissance in littorals and riverine areas. The system shall be easily integratable as a module to a number of existing underwater deployed sensors and unmanned underwater vehicles. DESCRIPTIO ...

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2. N11A-T028: New Affordable Energy Storage Technologies for Power Grids and Micro-Grids

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop new affordable energy storage systems to increase grid security, facilitate micro-grid development, and increase use of renewable energy technologies at shore-based facilities and for forward operating bases. DESCRIPTION: Power grids can be adversely affected by variable power demands, weather events, accidental damage, and deliberate attack. Furthermore, the transient natur ...

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3. N11A-T029: Affordable High Strength Mo-Si-B Alloys for High Temperature Applications

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Mature Mo-Si-B material production methodology for Aerospace use. In Phase 1 the process of maturation will optimally include the demonstration of medium scale material production, material lots of 1 to 10 pounds, and the assessment of the benefit of extrusion on the mechanical properties of Mo-Si-B alloys. DESCRIPTION: Maturation of material production methodologies/techniques is ne ...

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4. N11A-T030: Novel Torque Sensing for Condition Based Maintenance

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: To explore the use of and demonstrate the effectiveness of novel torque sensing devices for condition based maintenance of Navy rotating machinery (motors, generators, pumps, gear systems, etc.). Rate-of-change torque sensors, for example, have demonstrated both a sensitivity and time resolution high enough to not only recognize failing machinery, but to specifically identify the faili ...

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## 5. N11A-T031: Multi-Perspective Decision Making in a Networked Environment

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop a decision aid (selected display and algorithm products) to dramatically enhance submarine decision making by allowing rich multi-perspective interaction between local control room operations and alternative operational command centers. DESCRIPTION: Across warfare and mission areas, and between and across echelons of command, the rate at which information is presented to deci ...

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## 6. N11A-T032: High-level tools and languages for faster Intelligent Tutoring System(ITS) model development

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: High-level abstractions for new tools and languages capable of increasing the efficiency of expert and student model development for intelligent tutoring systems. DESCRIPTION: One of the success stories for artificial intelligence and cognitive modeling techniques has been in the area of intelligent tutoring systems (ITS). ITS have proven to increase levels of student learning by 1.5 ...

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## 7. N11A-T033: Multi-Sensor Data Collection Suite for Unobtrusive Human Performance Measurement

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop lightweight, unobtrusive, modular, and wearable recording device(s) to capture, synchronize, and download environmental, physiological, physical, and subjective measures that contribute, and are associated with physical and cognitive fatigue. The device(s) or system(s) should also be capable of objectively and reliably assessing fatigue uncontaminated by individual factors such ...

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## 8. N11A-T034: Energetic MaterialsRDX/HMX Performance with TATB Sensitivity

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Design, develop, characterize and demonstrate methods for the preparation of an advanced energetic whose energy output is similar to or exceeds RDX but whose sensitivity characteristics are similar to those of 1,3,5-Triamino-2,4,6-trinitrobenzene TATB. DESCRIPTION: Solve the following paradox:"Mission requirements impose the following conflicting demands for weapon systems"-- for whi ...

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### 9. N11A-T035: Safe High Voltage Cathode Materials for Pulsed Power Applications

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: To develop electrochemical materials for high density Li-ion batteries capable of supporting high transient and pulsed loads while offering enhanced safety and lifecycle performance. DESCRIPTION: Future Navy applications will require large amounts of stored energy to support loads which have high discharge and transient characteristics including pulses and similar waveforms. A wide ...

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### 10. N11A-T036: Weather and Environmental Software Tool for System Requirements Investigation

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop a validated analysis software package that can be used as a system requirement estimation tool to aid the aviation/missile development community in establishing real-world probabilities of encounter various weather related events. This tool will be able to predict the probability of encounter for a wide variety of weather events and phenomena. As weather databases tend to be lar ...

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